

Abstract of the Disclosure

5 A system for carbonating a liquid with carbon dioxide gas comprises a pressurized
source of carbon dioxide gas, a user-operable three-way valve system having a first, a second,
and a third orifice providing a first, a second and a third valve state, which in the first state
connects the first orifice with the second orifice, in the second state connects the second orifice
with the third orifice, and in the third state closes internal passage between all orifices, the valve
system connected from the first orifice and a conduit to the pressurized source of carbon
10 dioxide gas, and a closure assembly having an interface to a nozzle of a container for liquid and
an orifice connected through a conduit to the second orifice of the three way valve system. The
system is characterized in that placing the three-way valve system in the first state admits carbon
dioxide under pressure to the container, placing the three-way valve system in the second state
connects the container for liquid to the third orifice of the three way valve system, allowing the
15 container for liquid to de-pressurize, and placing the three-way valve system in the third state
closes all passages between orifices.